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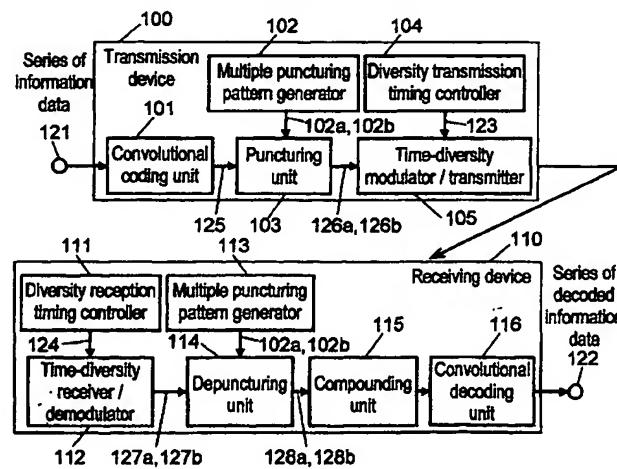
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(54) Method and system for transmission and reception of punctured convolutionally encoded data

(57) The present invention improves quality of communication in a transmission and reception system, a transmission and reception device, and a method of transmission and reception, which utilize primarily a combination of punctured-convolution-coding and diversity. Degradation in likelihood of certain data is prevented by adopting the steps of (a) punctured-convolution-coding an identical information data 121 by using a

plurality of different puncturing patterns 102a and 102b, (b) diversity-transmitting each of different series of punctured data obtained in step (a) as diversity branches, (c) depuncturing the series of punctured data individually in a receiving device 110 by using identical puncturing patterns 102a and 102b as used in the transmission side, and (d) compounding and convolution-decoding them thereafter.

FIG. 1A





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EUROPEAN SEARCH REPORT

Application Number
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DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (Int.Cl.)
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	
X	<p>KALLEL S: "COMPLEMENTARY PUNCTURED CONVOLUTIONAL (CPC) CODES AND THEIR APPLICATIONS" IEEE TRANSACTIONS ON COMMUNICATIONS, IEEE INC. NEW YORK, US, vol. 43, no. 6, 1 June 1995 (1995-06-01), pages 2005-2009, XP000510831 ISSN: 0090-6778 * abstract * * II. Complementary Punctured Convolutional (CPC) Codes. * * IV. Conclusions. *</p>	1-22	H04L1/00 H04L1/06 H04L1/04 H04B7/02
TECHNICAL FIELDS SEARCHED (Int.Cl.)			
H04L H04B			
The present search report has been drawn up for all claims			
Place of search BERLIN	Date of completion of the search 20 March 2002	Examiner Martinez Martinez, V	
CATEGORY OF CITED DOCUMENTS		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ----- & : member of the same patent family, corresponding document	
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : Intermediate document			